

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT IS LOCATED AT THE INTERSECTION OF US 50 AND HOBBS ROAD IN WICOMCO COUNTY, MARYLAND. THIS PROJECT INVOLVES ROADWAY WIDENING AND THE RECONSTRUCTION AND REWIRING OF AN EXISTING SIGNAL EFFECTED BY THIS WIDENING. US 50 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE, FULLY TRAFFIC ACTUATED MODE. THE US RTE. 50 APPROACHES WILL OPERATE CONCURRENTLY, WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND TRAFFIC. THE HOBBS ROAD APPROACHES WILL OPERATE SEPERATELY IN EXCLUSIVE PHASES.

A NEW EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER WITH TWO (2) FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFIERS, TELEMETRY MODULE, AND INTERSECTION MONITOR WITH BATTERY BACK UP HOUSED IN A NEMA SIZE SIX (6) BASE MOUNTED CABINET WILL BE INSTALLED.

III. SPECIAL NOTES

- THE SIGNAL SHOP WILL BE NOTIFIED TO PERFORM INTERNAL WIRING OF THE CABINET AT US RTE. 50 AND HOBBS ROAD. ALL CABLE SHALL BE IDENTIFIED AND BROUGHT INTO THE CONTROLLER BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER, SHA SIGNAL SHOP AT (410) 787-7650 SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS WORK.
- MOT PLATES FOR THIS PROJECT WILL BE AS FOLLOWS: 104.00 TO 104.00-12, 104.02-01, 104.03-01

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR

CATAGORY CODE	QUANTITY	DESCRIPTION
900000	1 EA	FURNISH NEMA 6 BASE MOUNTED CABINET & CONTROLLER
900000	10.7 SF	SHEET ALUMINUM SIGN
	- 1 EA	D3-2 (VARIABLE x 16 IN.) "Hobbs Road"

B. EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR

CATAGORY CODE	QUANTITY	DESCRIPTION
120500	1 L.S.	MAINTENANCE OF TRAFFIC
203030	3 CY	TEST PIT EXCAVATION
585445	150 LF	FURINSH AND INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
801004	5.5 CY	FURNISH AND INSTALL CONCRETE SIGNAL FOUNDATION
801106	32 LF	FURNISH AND INSTALL 4 IN. X 6 IN. WOOD SIGN SUPPORTS
801716	16 SF	RELOCATE EXISTING GROUND MOUNT SIGN
805011	110 LF	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8000000	435 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED
805118	275 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - BORED
8000000	40 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED
805160	10 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE
811001	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813010	1 EA	BAND SIGN TO SIGN SUPPORT
8000000	1 EA	FURNISH AND INSTALL 12 IN. X 21 FT. STRAIN POLE WITH SINGLE 38 FT. MAST ARM
802501	60 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
837001	2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT LENGTH
838003	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PH, 3 W)
800000	3 EA	FURNISH AND INSTALL 12" VECHICAL TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
800000	7 EA	FURNISH AND INSTALL 12" OPTICALLY PROGRAMMED TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
861116	1700 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR NO.12
861104	8100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
861107	2400 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO.14 AWG
861108	1500 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO.14 AWG
862101	1300 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING
862102	500 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	L.S.	REMOVE OF EQUIPMENT TO BE SALVAGED
800000	L.S.	DELIVERY OF SALVAGED EQUIPMENT
871202	1 EA	INSTALL NEMA 6 BASE MOUNTED CABINET
861117	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 3 WIRE (NO. 4 AWG)

EQUIPMENT LIST

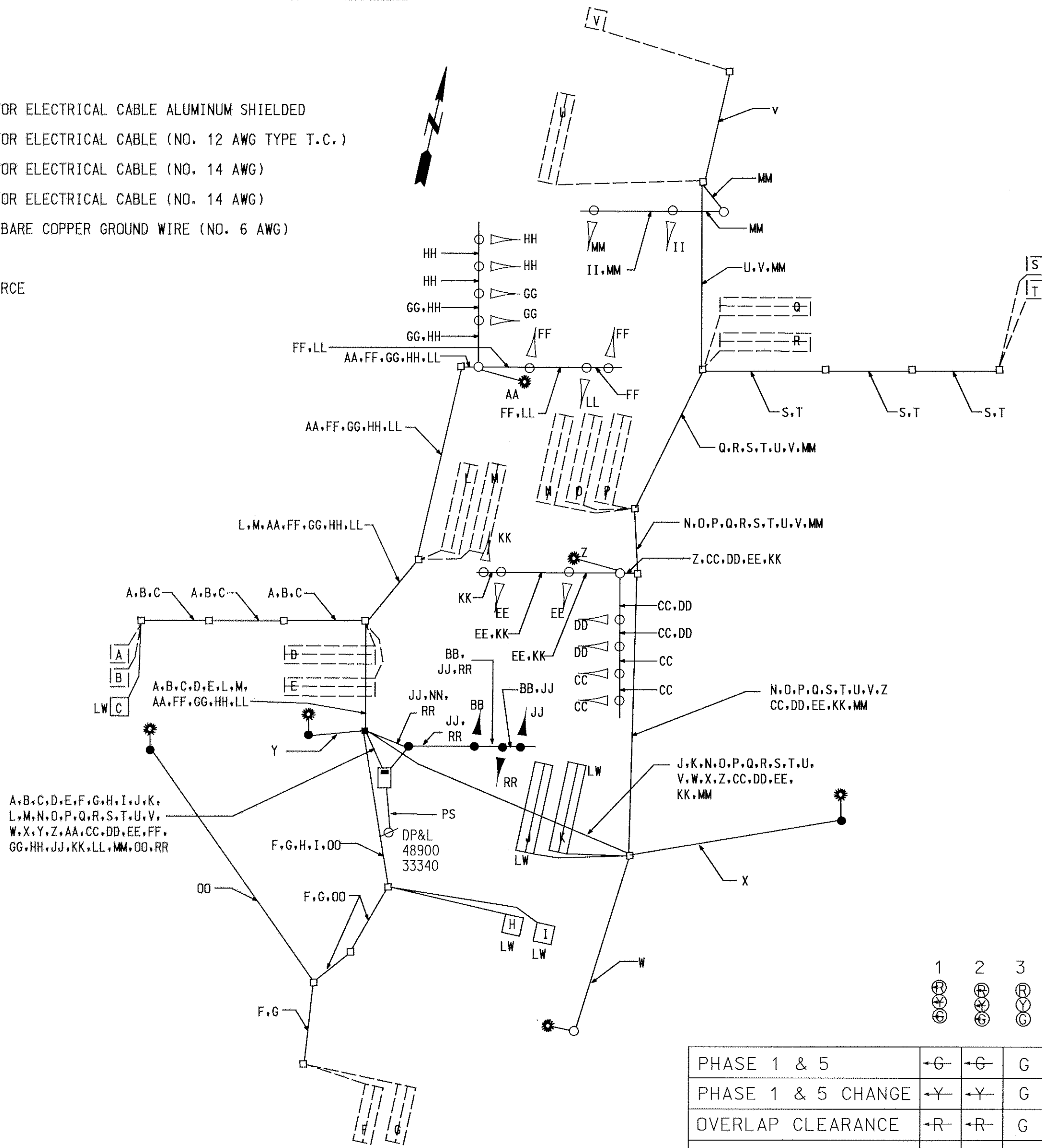
C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO 7491 CONNELLY DRIVE, HANOVER MARYLAND 21076. IN ADVANCE OF REMOVAL, CONTACT DAVID SCHWARTZ AT (410) 787-7668

QUANTITY	DESCRIPTION
1 EA	BASE MOUNTED CABINET & CONTROLLER

WIRING DIAGRAM

WIRING KEY

A-V	2 CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED
W-AA, OO	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG TYPE T.C.)
BB-II, RR	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
JJ-MM	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
NN	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
LW	LOOP WIRE
PS	POWER SOURCE



THE FOLLOWING CONTACT PERSONS FOR DISTRICT # 1 ARE AS FOLLOWS:

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
(410) 787-7630

Mr. Gene Cofell
Asst. District Engineer - Traffic
(410) 543-6715

Mr. Bruce W. Poole
Utility Engineer
(410) 543-6715

Mr. Donnie L. Drewer
District Engineer
(410) 543-6715


Mr. James R. Wright
Asst. District Engineer - Maintenance
(410) 543-6715

The Power Company Representative is:
CONNECTIVPOWER
CHRIS SMITH
P.O. BOX 1739
SALISBURY MD 21802-1739
(410) 860-6036

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PHASE 1 & 5	-G-	-G-	G	G	-R-	-R-	R	R	R	R	R	G-G	G-G	G	R	R	R	R
PHASE 1 & 5 CHANGE	-Y-	-Y-	G	G	-R-	-R-	R	R	R	R	R	G-G	G-G	G	R	R	R	R
OVERLAP CLEARANCE	-R-	-R-	G	G	-R-	-R-	R	R	R	R	R	G-G	G-G	G	R	R	R	R
CLEARANCE CHANGE	-R-	-R-	G	G	-R-	-R-	R	R	R	R	R	Y	Y	Y	R	R	R	R
PHASE 2 & 5	-R-	-R-	G	G	-R-	-R-	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 5 CHANGE	-R-	-R-	Y	Y	-R-	-R-	G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	-R-	-R-	R	R	-G-	-G-	G	G	R	R	R	R	R	R	R	G-G	G-G	G
PHASE 2 & 6 CHANGE	-R-	-R-	R	R	-Y-	-Y-	Y	Y	R	R	R	R	R	R	R	G-G	G-G	G
PHASE 3	-R-	-R-	R	R	-R-	-R-	R	R	R	R	R	R	R	R	G	G	G-G	G-G
PHASE 3 CHANGE	-R-	-R-	R	R	-R-	-R-	R	R	R	R	R	R	R	R	Y	Y	G-G	G-G
OVERLAP CLEARANCE	-R-	-R-	R	R	-R-	-R-	R	R	R	R	R	R	R	R	R	R	G-G	G-G
CLEARANCE CHANGE	-R-	-R-	R	R	-R-	-R-	R	R	R	R	R	R	R	R	R	R	Y	Y
PHASE 4	-R-	-R-	R	R	-R-	-R-	R	R	G	G	G	G-G	G-G	G	R	R	R	R
PHASE 4 CHANGE	-R-	-R-	R	R	-R-	-R-	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/R	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

PHASE CHART

REVISIONS		APPROVALS		 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION <i>Office of Traffic & Safety</i> TRAFFIC ENGINEERING DESIGN DIVISION U.S. 50 AND HOBBS ROAD GENERAL NOTES					
		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION							
		ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION							
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION							
AS BUILT 6-00 SHA. NO. W1-641-202-170		ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION		DRAWN BY: C.G.M. CHECKED BY: M.J.W. SCALE: N.T.S. DATE: 6/00					
AS BUILT 6-10-96 SHA. NO. AW-774-476-185P		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION							
RRZ		DIRECTOR, TRAFFIC & SAFETY							
				F.A.P. NO. S.H.A. NO. W16415270 COUNTY: WICOMICO LOG MILE: 22005019.99		TS NO. TS 3586 T.I.M.S. NO. D036		SHEET NO. 71 OF 135	